

## **Abstract**

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**Title:** The effectiveness of shock wave therapy for plantar fasciitis

**Objectives:** The main goal of this work is to assess the effect of the radial and focused shock wave therapy for plantar fasciitis compared with therapeutic ultrasound.

**Methods:** The study included 55 patients with diagnose of heel spur syndrome. Patients were divided into three groups according to undergoing therapy. Group A (n = 20) received 6 applications of radial shock wave, group B (n = 20) obtained 3 applications of focused shock wave and group C received 8 applications of therapeutic ultrasound. Intensity and character of the pain were assessed before and after therapeutic intervention using non-standardized questionnaire. For the assessment and description of the results were used standard statistical indicators and methods.

**Results:** Radial and focused shockwave therapy had according to the obtained results in the selected treatment protocol positive effect on the clinical course of the disease and was markedly more effective than therapeutic ultrasound. Almost all parameters reached the highest percentage improvement in the group treated with 6 applications of radial shock waves. There were no complications and side effects during the experiment.

**Keywords:** heel spur, plantar fasciitis, shockwave therapy, ESWT